

CLAIMS

What is claimed is:

- 1 1. A mammalian culture medium comprising recombinant human
2 albumin and a medium that can support cell development, wherein the mammalian culture
3 medium increases the viability of gametes or embryonic cells cultured in the mammalian
4 culture medium, and further wherein the mammalian culture medium is free from non-
5 recombinant human albumin.
- 1 2. The culture medium according to claim 1, wherein the medium that
2 can support cell development is selected from the group consisting of G1.2/G2.2,
3 KSOM/KSOMaa, M16, SOF/SOFaa, MTF, P1, HTF, Earle's, Hams F-10, M2, Hepes-G1.2,
4 Whitten's and PBS.
- 1 3. The culture medium according to claim 1, wherein the medium that
2 can support cell development supports embryo development.
- 1 4. The culture medium according to claim 1, wherein the medium that
2 can support cell development supports mammalian stem cell development.
- 1 5. The culture medium according to claim 1, comprising about 0.5 mg/ml
2 to about 5.0 mg/ml recombinant human albumin and further comprising citrate.
- 1 6. The culture medium according to claim 2, further comprising citrate.
- 1 7. The culture medium according to claim 1, comprising about 0.5 mg/ml
2 to about 5.0 mg/ml recombinant human albumin and further comprising fermented
3 hyaluronan.
- 1 8. The culture medium according to claim 2, further comprising
2 fermented hyaluronan.
- 1 9. The culture medium according to claim 3, further comprising citrate.
- 1 10. The culture medium according to claim 4, further comprising citrate.

1 11. The culture medium according to claim 3, further comprising
2 fermented hyaluronan.

1 12. The culture medium according to claim 4, further comprising
2 fermented hyaluronan.

1 13. A method of increasing the viability of embryonic cells comprising
2 culturing an embryo in the mammalian culture medium of claim 1, wherein the viability of
3 the embryo is increased.

1 14. A mammalian culture medium supplement comprising recombinant
2 human albumin, wherein the supplement increases the viability of gametes or embryonic cells
3 cultured in a medium containing the supplement, and further wherein the supplement is free
4 from non-recombinant human albumin.

1 15. The supplement according to claim 14 further comprising citrate.

1 16. The supplement according to claim 15, wherein the citrate is present in
2 a range of about 0.1 mM to about 1.0 mM when added to the medium.

1 17. The supplement according to claim 14, wherein the recombinant
2 human albumin is present in a range of about 0.5 mg/ml to about 5.0 mg/ml when added to
3 the medium.

1 18. A method of producing a supplement for a mammalian culture medium
2 comprising adding recombinant human albumin to either water, saline or medium to make a
3 supplement for a mammalian culture medium, wherein the supplement increases the viability
4 of gametes or embryonic cells cultured in a medium containing the supplement, and further
5 wherein the supplement is free from non-recombinant human albumin.

1 19. The method of producing a supplement for a mammalian culture
2 medium of claim 18 further comprising adding citrate.

1 20. A kit for supplementation of mammalian culture medium, comprising:
2 (a) a medium comprising recombinant human albumin, and optionally one
3 or more ingredients selected from the group consisting of mammalian culture medium,
4 fermented hyaluronan, citrate and combinations thereof, wherein the medium increases the

- 5 viability of gametes or embryonic cells cultured in the medium, and further wherein the
6 medium is free from non-recombinant human albumin; and
7 (b) instructions for use of the kit.